

AMENDMENTS TO THE SPECIFICATION

Kindly replace paragraph [00037] with the following amended paragraph:

[0037] An example of a reduction in the current necessary to drive the fluxgate that is possible by the present invention is as follows: if one cycle of the sensing apparatus is 5ms long, an actual driving time of the coil is reduced to about 20 $\mu$ s. In such a case, if power consumption of the conventional fluxgate is 100 when current is continuously applied to the driving coil during one cycle, the power consumption of the fluxgate according to the present invention is reduced to 0.4, or [[.4%]] 40% of the power consumption of the conventional fluxgate.